



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1410
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,884	06/25/2003	Robert N. Goldberg	03226/30500 ; P9163	3002

32615 7590 01/26/2006

OSHA LIANG L.L.P./SUN
1221 MCKINNEY, SUITE 2800
HOUSTON, TX 77010

EXAMINER

PONIKIEWSKI, TOMASZ

ART UNIT PAPER NUMBER

2165

DATE MAILED: 01/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/603,884	Applicant(s) GOLDBERG ET AL.	
	Examiner Tomasz Ponikiewski	Art Unit 2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

1. Claims 1-17 are pending

Claim Objections

2. Claim 8 line 2 is objected to because of the following informalities: the recitation of "in within" should be "within". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13 recites the limitation "the database schema" in page 19, line 1. There is insufficient antecedent basis for this limitation in the claim.

Claims 14-15 are dependent on claim 13, therefore carry the same deficiency.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al. (US Patent 5,615,362).

As per claim 1 Jensen et al. is directed to a system for specifying read/write consistency for an application, comprising:

an application comprising at least one transaction (column 4, lines 20-30; column 5, lines 59-62, wherein “transaction” means “object instance”), wherein the at least one transaction comprises at least one of a plurality of states, (column 9, lines 22-31) at least one of a plurality of transitions (column 6, lines 63-64, wherein “transition” means “transform”), and at least one artifact (column 6, lines 18-19, wherein “artifact” means “attribute”);
and a database operatively connected to the application (column 4, lines 23-24);
wherein the application accesses data associated with the at least one artifact using a read/write consistency specification (column 4, lines 41-49);
wherein the read/write consistency specification specifies at least one selected

from the group consisting of a read consistency and a write consistency
for the at least one artifact within the transaction (column 4, lines 41-44).

As per claim 2 Jensen et al. is directed to wherein the application is defined using
an application usage specification (column 5, lines 59-65).

As per claim 3 Jensen et al. is directed to wherein the application is designed
using an application usage specification and a business object specification
(column 5, lines 51-52; column 5, lines 59-65).

As per claim 4 Jensen et al. is directed to wherein the business object
specification defines a variable of a business object (column 6, lines 25-27).

As per claim 5 Jensen et al. is directed to wherein the business object
specification defines how the business object is to be used in within the plurality
of states and the plurality of transitions using the application usage specification
(column 9, lines 21-31).

A per claim 6 Jensen et al. is directed to wherein the application is designed
using an application usage specification and a database schema (column 6, lines
61-62; column 9, lines 21-31).

Art Unit: 2165

As per claim 7 Jensen et al. is directed to wherein the database schema defines an attribute in a database schema (column 6, lines 61-62).

As per claim 8 Jensen et al. is directed to wherein the database schema defines how the attribute is to be used in within the plurality of states and the plurality of transitions using the application usage specification (column 10, lines 46-57).

As per claim 9 Jensen et al. is directed wherein the database is a relational database (column 1, line 43).

As per claim 10 Jensen et al. is directed to wherein the read consistency includes at least one selected from the group consisting of none, read once, re-read, and read consistent (column 12, lines 13-15).

As per claim 11 Jensen et al. is directed to wherein the write consistency includes at least one selected from the group consisting of none, creating an object, write over, write append, and write consistent (column 13, lines 1-9).

As per claim 12 Jensen et al. is directed to wherein the artifact is one selected from the group consisting of a variable, an attribute, and a relationship (column 6, lines 18-19).

As per claim 13 Jensen et al. is directed to a method for generating an application, comprising:

obtaining a business object specification that defines at least one artifact (column 5, lines 51-52);

obtaining an application usage specification that defines the application as a plurality of states (column 9, lines 22-31) and a plurality of transitions (column 6, lines 63-64, wherein "transition" means "transform"), wherein the at least one artifact is associated with a state (column 9, lines 30-31);

obtaining a read/write consistency specification that corresponds to at least one transaction, wherein the at least one transaction comprises at least one of the plurality of states and one of the plurality of transitions and the read/write consistency specification includes at least one selected from the group consisting of a read consistency and a write consistency for the at least one artifact within the transaction (column 12, lines 13-15; column 13, lines 1-9);

and generating the application using the database schema, the application usage specification, and the read/write consistency specification (column 10, lines 46-57);

wherein the artifact is one selected from the group consisting of a variable, a relationship, and an attribute (column 6, lines 18-19).

As per claim 14 Jensen et al. is directed to wherein the read consistency includes at least one selected from the group consisting of none, read once, re-read, and read consistent (column 12, lines 13-15).

As per claim 15 Jensen et al. is directed to wherein the write consistency includes at least one selected from the group consisting of none, creating an object, write over, write append, and write consistent (column 13, lines 1-9).

As per claim 16 Jensen et al. is directed to a computer-readable medium having recorded thereon instructions executable by a processor, the instructions for: obtaining a database schema that defines at least one artifact (column 6, lines 61-62);

obtaining an application usage specification that defines the application as a plurality of states (column 9, lines 22-31) and a plurality of transitions (column 6, lines 63-64, wherein "transition" means "transform"), wherein the at least one artifact is associated with a state (column 9, lines 30-31); obtaining a read/write consistency specification that corresponds to at least one transaction, wherein the at least one transaction comprises at least one of the plurality of states and one of the plurality of transitions and the read/write consistency specification includes at least one selected from the group consisting of a read consistency and a write consistency for at

least one artifact within the transaction (column 12, lines 13-15; column 13, lines 1-9);
and generating the application using the database schema, the application usage specification, and the read/write consistency specification (column 10, lines 46-57).

As per claim 17 Jensen et al. is directed to an apparatus for generating an application, comprising:

means for obtaining a database schema that defines at least one artifact (column 6, lines 61-62);

means for obtaining an application usage specification that defines the application as a plurality of states (column 9, lines 22-31) and a plurality of transitions (column 6, lines 63-64, wherein "transition" means "transform"), wherein the at least one artifact is associated with a state (column 9, lines 30-31);

means for obtaining a read/write consistency specification that corresponds to at least one transaction, wherein the at least one transaction comprises at least one of the plurality of states and one of the plurality of transitions and the read/write consistency specification includes at least one selected from the group consisting of a read consistency and a write consistency for the at least one artifact within the transaction (column 12, lines 13-15; column 13, lines 1-9);

and means for generating the application using the database schema, the application usage specification, and the read/write consistency specification (column 10, lines 46-57); wherein the artifact is one selected from the group consisting of a variable, a relationship, and an attribute (column 6, lines 18-19).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Jensen et al. (US 5,615,362) teaches managing data in cache.

Sharpe, Jr. et al. (US 6,094,600) teaches management methods within database with plurality of devices.

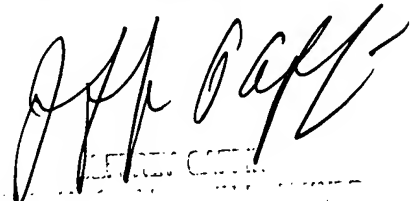
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tomasz Ponikiewski whose telephone number is (571)272-1721. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (571)272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2165

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tomasz Ponikiewski
January 20 2006



Electronic Business Center
U.S. Patent and Trademark Office
Washington, DC 20503